

12 **EUROPEAN PATENT APPLICATION**

21 Application number: **85103621.0**

51 Int. Cl.³: **G 03 C 5/00**

22 Date of filing: **27.03.85**

30 Priority: **30.03.84 US 595361**
30.03.84 US 595362

43 Date of publication of application:
02.10.85 Bulletin 85/40

88 Date of deferred publication of search report: **22.06.88**

84 Designated Contracting States:
BE DE FR GB

71 Applicant: **E.I. DU PONT DE NEMOURS AND COMPANY**
1007 Market Street
Wilmington Delaware 19898(US)

72 Inventor: **Grubb, Eugene Leander**
19 Downing Hill Lane
Colts Neck New Jersey 07727(US)

72 Inventor: **Matrick, Howard**
5D Twinlights Terrace
Highlands New Jersey 07732(US)

74 Representative: **Werner, Hans-Karsten, Dr. et al,**
Deichmannhaus am Hauptbahnhof
D-5000 Köln 1(DE)

54 **Toners treated with polymeric quaternary ammonium salts and slip agent and process.**

57 Dry nonelectroscopic toner comprising pigmented organic resin particles having a size distribution of 0.2 to 30 micrometers, surface coated with at least 0.1% by weight of silicone oil or fluorocarbon compound, in combination with at least 0.5% by weight of a water soluble, polymeric quaternary ammonium compound as defined and process of toner preparation. The toner is useful in color developing positive- and negative-working photosensitive elements. The toners, particularly magenta and cyan, exhibit high density and excellent stability.



European Patent
Office

EUROPEAN SEARCH REPORT

01 56369

Application Number

EP 85 10 3621

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y,D	EP-A-0 051 830 (DU PONT) * Claims 1,2,6,11,12 * & US-A-4 397 941 ---	1-15	G 03 C 5/00
Y	US-A-4 224 396 (J.-C. POLLET) * Claims 1,4; column 5, line 30 - column 6, line 5 * ---	1-4,11-15	
Y	US-A-4 299 898 (M.W. WILLIAMS et al.) * Column 1, line 60 - column 3, line 39 * ---	1-8,11-15	
Y	US-A-3 486 932 (R.J. SCHAPER et al.) * Column 2, line 18 - column 3, line 18 * ---	1,2,5-8,11-15	
Y	GB-A-1 333 241 (ROHM AND HAAS) * Page 2, lines 11-82 * & US-A-3 617 372 ---	1,2,5-8,11-15	
Y	US-A-4 263 389 (R.N. CICCARELLI) * Claims 1-3 * ---	1,2,7,8,11-15	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
Y	US-A-3 320 317 (W.A. ROGERS et al.) * Claims * ---	1,2,9-15	G 03 F 7/00 G 03 G 9/00
A	RESEARCH DISCLOSURE, no. 102, October 1972, pages 57,58, abstract no. 10244; "Electrographic toner and developer composition" * Whole document * -----	1-15	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-02-1988	Examiner MARKHAM R.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			